

TRANSFLECTOR

ABSTRACT

Transflectors are disclosed that include a body having a first surface and a second surface, the second surface being a structured surface that includes prismatic structures having first and second facets. The transflector body is configured so that, in a reflective mode, light incident onto the first surface at a reflected incident angle is refracted through the first surface, reflected at the first facet of a first prismatic structure, reflected at the second facet of a second prismatic structure, and refracted through the first surface with a maximum intensity at about a reflected exit angle. The transflector body is also configured so that, in a transmissive mode, light incident onto the second surface at a transmitted incident angle is directed by a prismatic structure to the first surface and refracted through the first surface with a maximum intensity at about a transmitted exit angle. Also disclosed are methods of making, as well as display devices incorporating such transflectors.